

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL082320\  
 Data File : VL035503.D  
 Acq On : 23 Aug 2020 19:17  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Aug 24 02:30:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sun Aug 23 12:40:32 2020  
 QLast Update : Sun Aug 23 12:40:32 2020  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.851 | 1.801 | 2.7   | 109   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.132 | 1.055 | 6.8   | 95    | 0.00     |
| 4    | Chloromethane               | 0.585 | 0.551 | 5.8   | 94    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.692 | 0.666 | 3.8   | 94    | 0.00     |
| 6 T  | Bromomethane                | 0.636 | 0.584 | 8.2   | 92    | 0.00     |
| 7    | Chloroethane                | 0.264 | 0.246 | 6.8   | 93    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 2.180 | 1.990 | 8.7   | 96    | 0.00     |
| 9 T  | Propene                     | 0.441 | 0.405 | 8.2   | 93    | 0.00     |
| 10 T | Heptane                     | 1.171 | 1.129 | 3.6   | 94    | 0.00     |
| 11 T | Trichlorofluoromethane      | 2.654 | 2.415 | 9.0   | 95    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.977 | 1.808 | 8.5   | 94    | 0.00     |
| 13   | Ethanol                     | 0.126 | 0.099 | 21.4  | 86    | 0.00     |
| 14 T | Bromoethene                 | 0.864 | 0.819 | 5.2   | 92    | 0.00     |
| 15 T | Acetone                     | 1.057 | 0.859 | 18.7  | 91    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.426 | 0.403 | 5.4   | 95    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.370 | 1.328 | 3.1   | 92    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.876 | 0.828 | 5.5   | 93    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.697 | 0.646 | 7.3   | 89    | 0.00     |
| 20 T | Methylene Chloride          | 1.148 | 0.712 | 38.0# | 100   | 0.00     |
| 21 T | Allyl Chloride              | 0.541 | 0.523 | 3.3   | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.927 | 0.862 | 7.0   | 92    | 0.00     |
| 23 T | Vinyl Acetate               | 1.411 | 1.399 | 0.9   | 92    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.486 | 1.381 | 7.1   | 93    | 0.00     |
| 25 T | Ethyl Acetate               | 2.037 | 1.815 | 10.9  | 93    | 0.00     |
| 26 T | Hexane                      | 1.238 | 1.055 | 14.8  | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 1.651 | 1.711 | -3.6  | 92    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 2.010 | 1.919 | 4.5   | 93    | 0.00     |
| 29 T | Chloroform                  | 2.354 | 2.186 | 7.1   | 95    | 0.00     |
| 30 T | Cyclohexane                 | 1.246 | 1.220 | 2.1   | 93    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.173 | 1.144 | 2.5   | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.150 | 2.205 | -2.6  | 94    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 34 T | 2-Butanone                  | 0.294 | 0.281 | 4.4   | 93    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.487 | 0.520 | -6.8  | 94    | 0.00     |
| 36 T | Benzene                     | 0.657 | 0.620 | 5.6   | 93    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.311 | 0.296 | 4.8   | 95    | 0.00     |
| 38 T | Trichloroethene             | 0.363 | 0.338 | 6.9   | 93    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.219 | 0.207 | 5.5   | 94    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.109 | 0.109 | 0.0   | 88    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.160 | 0.160 | 0.0   | 93    | 0.00     |
| 42 T | Bromodichloromethane        | 0.508 | 0.514 | -1.2  | 94    | 0.00     |
| 43   | Methyl Methacrylate         | 0.254 | 0.254 | 0.0   | 93    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 0.858 | 0.796 | 7.2   | 95    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.261 | 0.290 | -11.1 | 91    | 0.00     |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.323 | 0.345 | -6.8  | 92    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.329 | 0.309 | 6.1   | 93    | 0.00     |
| 48 T | Dibromochloromethane      | 0.524 | 0.560 | -6.9  | 94    | 0.00     |
| 49 T | Bromoform                 | 0.487 | 0.537 | -10.3 | 93    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.423 | 0.423 | 0.0   | 95    | 0.00     |
| 51 T | 2-Hexanone                | 0.345 | 0.366 | -6.1  | 96    | 0.00     |
| 52 T | Tetrachloroethene         | 0.382 | 0.353 | 7.6   | 93    | 0.00     |
| 53 T | Toluene                   | 0.831 | 0.807 | 2.9   | 94    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.523 | 0.499 | 4.6   | 93    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.424 | 0.406 | 4.2   | 94    | 0.00     |
| 57 T | Chlorobenzene             | 0.753 | 0.658 | 12.6  | 94    | 0.00     |
| 58 T | Ethyl Benzene             | 1.074 | 1.000 | 6.9   | 94    | 0.00     |
| 59 T | m/p-Xylene                | 0.914 | 0.809 | 11.5  | 94    | 0.00     |
| 60 T | o-Xylene                  | 0.897 | 0.822 | 8.4   | 95    | 0.00     |
| 61 T | Styrene                   | 0.691 | 0.675 | 2.3   | 93    | 0.00     |
| 62   | Isopropylbenzene          | 1.453 | 1.292 | 11.1  | 95    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.653 | 0.579 | 11.3  | 96    | 0.00     |
| 64   | n-propylbenzene           | 0.442 | 0.411 | 7.0   | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 1.381 | 1.242 | 10.1  | 95    | 0.00     |
| 66 T | Benzyl Chloride           | 0.338 | 0.391 | -15.7 | 85    | 0.00     |
| 67   | sec-Butylbenzene          | 1.835 | 1.612 | 12.2  | 96    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.715 | 0.704 | 1.5   | 97    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.599 | 1.434 | 10.3  | 96    | 0.00     |
| 70   | n-Butylbenzene            | 1.533 | 1.364 | 11.0  | 95    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.050 | 0.970 | 7.6   | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.145 | 1.069 | 6.6   | 95    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.061 | 0.995 | 6.2   | 95    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.162 | 1.038 | 10.7  | 95    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.871 | 0.763 | 12.4  | 95    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.872 | 0.772 | 11.5  | 94    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.859 | 0.758 | 11.8  | 95    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.596 | 0.490 | 17.8  | 91    | 0.00     |
| 79 T | Naphthalene               | 1.461 | 1.272 | 12.9  | 90    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.585 | 0.500 | 14.5  | 80    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.859 | 0.743 | 13.5  | 91    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0